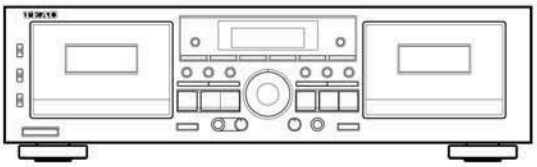
TEAC



SERVICE MANUAL

W-865R

Double Cassette Deck

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2 ADJUSTMENT AND CHECKS 3
3 EXPLODED VIEWS AND PARTS LIST 8
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NOTES

- PC boards shown are viewed from parts side.
- Parts marked with * require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [SA]:SOUTH AMERICA
  [GE]:GENERAL EXPORT [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA
  W-865R(S): Silver Version W-865R(B):Black Version

注 意

- プリント基板図は部品面を示しています。
- *印の部品は納期が若干かかります。
  あらかじめご了承ください。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。
  回路図を参照してください。
- ⚠印は安全重要部品です。
  交換する時は必ず指定の部品を使用してください。
- 仕向先
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [SA]:SOUTH AMERICA
  [GE]:GENERAL EXPORT [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA
  W-865R(S): Silver Version W-865R(B):Black Version

Effective : May, 2008

1. Specifications

仕様

Track System: 4-track, 2-channel stereo

Heads: Deck 1; 1 Erase and 1 Record/Playback (Rotating)
Deck 2; 1 Erase and 1 Record/Playback (Rotating)

Type of Tape: Cassette tape C-60 and C-90 (Philips type)

Tape Speeds: 4.76 cm/sec (1-7/8 ips)
9.5 cm/sec (3-3/4 ips) (High speed dubbing)

Pitch Control: ±12%

Motors: 2 DC servo motors (1 ea. deck)

Wow and Flutter: 0.09 % (WRMS)

Frequency response (Overall, -20 dB):
30–19,000 Hz, Metal tape(Playback only)
30–18,000 Hz, CrO2 tape
30–17,000 Hz, Normal tape

Signal-to-Noise Ratio (Overall):
59 dB (NR off, 3 % THD Level, Weighted)
69 dB (Dolby B NR on, over 5 kHz)

Fast Winding Time: Approximately 110 seconds for C-60

Inputs: Line: −9 dB, 50 k ohms
Mic: −57 dB, 200 ohms

Outputs: Line: −4.5 dB for load impedance of 50 k ohms or more
Headphones: 1 mW/32 ohms

Power Requirements:
120/230 V AC, 50-60 Hz(General Export model)
120 V AC, 60 Hz (U.S.A./Canada model)
230 V AC, 50 Hz (Europe model)
220 V AC, 60 Hz (Korea Model)

Power Consumption: 22 W

Dimensions (W x H x D):
435 x 127 x292 mm
(17-1/8" x 4-15/16" x 11-1/2")

Weight (net): 4.0kg(8-13/16 ibs.)

Standard Accessories:
Remote Control Unit(RC-615A)
Battery(SUM-3,"AA","R6"type)
Input-output connection cord x 1

- Improvements may result in specification or feature changing without notice.
- 0 dB=0.775V

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
"DOLBY", the double-D symbol ◻◻ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

トラック形式: 4トラック2チャンネル ステレオ

ヘッド構成: Deck 1：録音/再生ヘッド×1 消去ヘッド×1
Deck 2：録音/再生ヘッド×1 消去ヘッド×1

使用テープ: C-60, C-90タイプ カセットテープ

テープ速度: 4.8cm/sec, 9.5cm/sec（倍速ダビング時）

ピッチコントロール: ±12%

モーター: Deck 1： DCサーボモーター×1
Deck 2： DCサーボモーター×1

ワウ・フラッター: 0.09% (W.RMS)
±0.1% (W.Peak)*

周波数特性(総合) メタル： 30～19,000Hz (再生のみ)
クローム： 30～18,000Hz
ノーマル： 30～17,000Hz

SN比(総合) 58dB（NR OFF, 規定録音レベル）*
69dB（ドルビーB NR ON, CCIR-ARM）

早巻時間 約110秒（C-60テープ）

入力 ライン：−9dB（入力インピーダンス50kΩ）
マイク：−57dB（入力インピーダンス200Ω）

出力 ライン：−4.5dB（負荷インピーダンス50kΩ以上）
ヘッドフォン：1mW / 32Ω

電源 100V AC, 50−60Hz

消費電力 16W

外形寸法 435×127×292mm (W×H×D)

質量 4.0kg

付属品 リモート コントロールユニット（RC−615A）x1、
単3形乾電池x2、入出力コード2本（1組）、
取扱説明書、保証書

- この仕様は特に表示した項目を除き、当社基準テープを使用して測定したものです。
- 仕様および外観は、改善のため予告なく変更することがあります。
- *印は、電子情報技術産業協会 (JEITA) 規格に定められた測定法によるものです。
- 0 dB=0.775V

ドルビーノイズリダクション及びHX PROヘッドルームエクステンションはドルビーラボラトリーズライセンシングコーポレーションからの実施権に基づき製造されています．HX PROはバングアンドオルフセンの考案です．
ドルビー，DOLBY，ダブルD記号◻◻及びHX PROはドルビーラボラトリーズライセンシングコーポレーションの登録商標です．

2 Adjustment and Checks
調整と確認

2-1 MECHANICAL ADJUSTMENT
2-1-1 Wow and flutter (playback method)

In both FWD and REV play modes, these measurements should be made at the beginning, middle, and the end of the tape.

1. Connect a wow-and-flutter meter to the LINE OUT.
2. Load and play a TEAC MTT-111N test tape.
3. Check that the readings on the wow-and-flutter meter is within 0.19% (JIS WTD).

2-1-2 Tape speed

1. Connect a frequency counter to the LINE OUT.
2. Load a TEAC MTT-111N test tape and play in FWD direction the beginning of the test tape.
3. Adjust each variable resistor to get the following values.

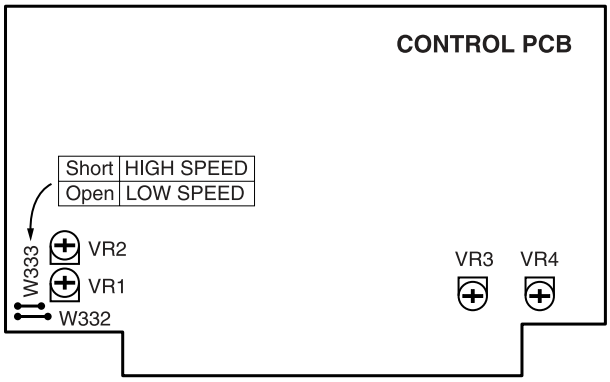


Fig. 2-1

4. In play mode, check that the following values are obtained at the beginning and end of the tape.
   Speed drifting Within 120Hz (HIGH speed)
   Within 60Hz (LOW speed)

2-1-3 Reel torque

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values.
   Take-up: 30 to 70g-cm
   Supply: 1.5 to 6g-cm
   FF/REW: 70 to 150g-cm

Torque meter

MTT-8111W:	Forward torque & back tension
MTT-8121W:	Reverse torque & back tension
MTT-8242:	Fast forward & rewind static torque

2-1 機構部の調整
2-1-1 ワウ・フラッタ(再生法)

FWD, REV両方向でテープの巻始め、中間、巻終りを測定する。

1. LINE OUT端子にワウ・フラッタメーターを接続する。
2. テストテープMTT-111Nを再生する。
3. ワウ・フラッタ値が0.19% (JIS WTD) 以下であることを確認する。

2-1-2 テープスピード

1. LINE OUT端子に周波数カウンターを接続する。
2. テストテープMTT-111Nの巻始め部をFWD方向で再生する。
3. 周波数値が下表の範囲内になるよう、各調整VRを調整する。

	Adjustment point 調整個所		Adjustment value 調整値
REC/PLAY *1*	HIGH speed	VR2	6,000±30Hz
	LOW speed	VR1	3,000±20Hz
REC/PLAY *2*	HIGH speed	VR4	6,000±30Hz
	LOW speed	VR3	3,000±20Hz

4. 巻始めから巻終りまで再生し、変動幅を確認する。
   変動幅： 120Hz以内（ハイスピード）
   60Hz以内（ロースピード）

2-1-3 リールトルク

1. カセット型トルクメーターによる測定値が下記の範囲内であることを確認する。
   テイクアップトルク： 30～70g-cm
   バックテンショントルク： 1.5～6g-cm
   早送り/巻戻しトルク： 70～150g-cm

トルクメーター

MTT-8111W：	巻取りトルクとバックテンション(FWD用)
MTT-8121W：	巻取りトルクとバックテンション(REV用)
MTT-8242 ：	早送り／巻戻しトルク

2-2 ELECTRICAL ADJUSTMENT

2-2-1 Precautions

- Before performing adjustments and checks clean and demag netize the entire tape path.
- In general, adjustments and checks are made in the order of Lch then Rch. Double REF. Nos. indicate Lch/Rch. (Example; R11/R21)
- 0dB is referenced to 0.775V.
- The AC voltmeter used in the procedures must have an input impedance of 1MΩ or more.
- Unless specified otherwise, adjustments and checks are made in FWD direction.

2-2 アンプ部の調整

2-2-1 注意

- アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行なってください。
- 特に指定のない限り、調整はLch, Rchの順序で行なってください。尚、R11/R21のように記されている回路番号はLch/Rchを示します。
- 0dBは0.775Vです。
- 測定に使用するレベル計の入力インピーダンスは1MΩ以上のものを使用してください。
- 特に指定のない場合、調整および確認はFWD方向で行なってください。

2-2-2 Adjustment locations 調整個所

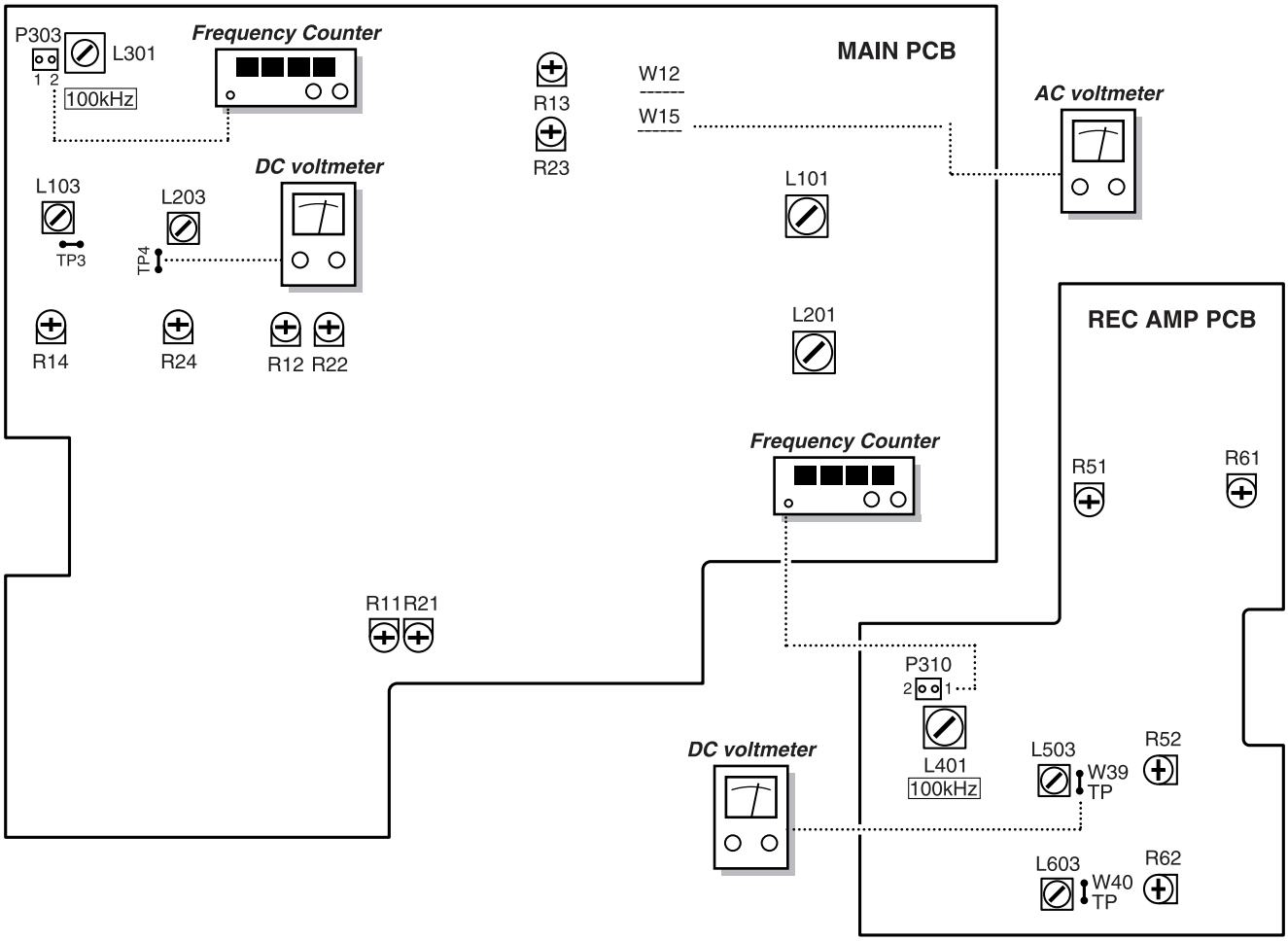


Fig. 2-2

2-2-3 Playback performance 再生系

Deck settings:

Mode: PLAY

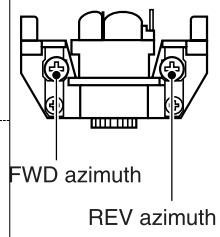
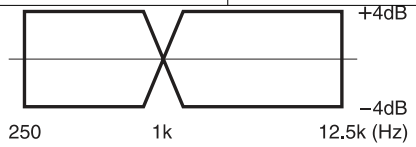
DOLBY NR Switch: OFF

TEAC test tapes:

MTT-150: For Dolby level calibration

MTT-25702: For playback frequency response check NORMAL tape

MTT-5513: For S/N check NORMAL tape

ITEM 項 目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUSTMENTS 調整個所	MEASURING POINTS, RESULT 測定個所・調整値	REMARKS 備 考
1. Head azimuth adjustment **アジマス調整**	Connection:Fig. 2-4 Check and adjust in FWD, REV respectively FWD、REVそれぞれ調整・確認	MTT-150C	Check	LINE OUT: Phase: within 45° 位相: 45°以内 (Fig. 2-5)	
		MTT-25702 (12.5kHz)	Azimuth screws アジマス調整ねじ	LINE OUT: Maximum output level at L & R-ch Lch、Rchとも出力最大	
2. DOLBY level **ドルビーレベル**	Connection:Fig. 2-2 FWD PLAY	MTT-150C	R11/R21	W12/W15: 300mV	REC/PLAY *1*
			R12/R22		REC/PLAY *2*
3. Playback output level **再生出力レベル**	Connection:Fig. 2-3 FWD/REV PLAY	MTT-150C	Check	LINE OUT: −4.5±1dB	Ref. output level 基準出力レベル
4. Meter level **メーターレベル**		MTT-150C	Check	LEVEL METER: □□ mark±1dot	
5. PHONES output level PHONES **出力レベル**		MTT-150C	Check	PHONES: −13±3dB	32Ω load 32Ω負荷
6. Playback frequency response **再生周波数特性**	Connection:Fig. 2-3	MTT-25702	Check		
7. Playback S/N ratio **再生S/N比**	Connection:Fig. 2-3	MTT-5513 Playback the leader tape portion リーダーテープ部を再生	Check	46dB min.	Ratio of ref. level to noise 基準出力レベルとノイズの比

2-2-4 Recording performance 録音系

Deck settings:

Mode: REC/PLAY

DOLBY NR Switch: OFF

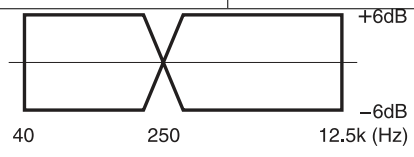
REC LEVEL Control: Specified position (Item 8)

TEAC recording test tapes:

MTT-5513: For NORMAL

MTT-5563: For CrO2

MTT-5572: For METAL

ITEM 項 目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUSTMENTS 調整個所	MEASURING POINTS, RESULT 測定個所・調整値	REMARKS 備 考
8. Specified LINE input level ライン規定入力レベル	Connection:Fig. 2-3 Mode: REC	LINE IN: 400Hz/−9dB	REC LEVEL	LINE OUT: −4.5dB	After adjusting, do not move (Specific position) 調整後は動かさないこと（規定位置）
9. Bias osc frequency バイアス発振周波数	Connection:Fig. 2-2 TAPE: MTT-5513 Mode: REC	LINE IN: No signal 無信号	L301	P303 Pin 2: 100kHz	REC/PLAY 2
			L401	P310 Pin 1: 100kHz	REC/PLAY 1
10. Step up coil ステップアップコイル	Connection:Fig. 2-2 TAPE: MTT-5572 Mode: REC	LINE IN: No signal 無信号	L103/L203	TP3/TP4: Min. DC voltage DC電圧最小	REC/PLAY 2
			L503/L603	W39/W40: Min. DC voltage DC電圧最小	REC/PLAY 1
11. Record bias 録音バイアス	Connection:Fig. 2-3 TAPE: MTT-5513	LINE IN: 250Hz/10kHz −42dB	R14/R24	LINE OUT: Nearly equal level at both frequencies 両周波数の録再出力が同レベル(±0.5dB)	REC/PLAY 2
			R52/R62		REC/PLAY 1
12. MPX filter MPX フィルター	Connection:Fig. 2-3 Mode: REC	LINE IN: 19kHz/−12dB	L101/L201	30dB min.	Ratio of ref. level to signal 基準出力レベルに対する比
13. Record level 録音レベル	Connection:Fig. 2-3 TAPE: MTT-5513	LINE IN: 400Hz/−12dB	R13/R23	LINE OUT: −7.5dB	REC/PLAY Γ
			R51/R61		REC/PLAY ∘
	TAPE: MTT-5563		Check	LINE OUT: −7.5±1dB	
14. Total harmonic distortion 総合歪率	Connection:Fig. 2-3 TAPE: MTT-5513 MTT-5563	LINE IN: 400Hz/−12dB	Check	NORMAL: 2.0% or less CrO_2 : 2.5% or less	
15. Overall frequency response 録再周波数特性	Connection:Fig. 2-3 TAPE: MTT-5513 MTT-5563	LINE IN: 40Hz–12.5kHz −42dB	Check		
16. Overall S/N ratio 総合S/N比	Connection:Fig. 2-3 TAPE: MTT-5513 MTT-5563	LINE IN: No signal 無信号	Check	NORMAL : 45dB min. CrO_2 : 46dB min.	Ratio of ref. level to noise 基準出力レベルとノイズの比

ITEM 項 目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUSTMENTS 調整個所	MEASURING RESULT 調整値	REMARKS 備 考
17. Erase efficiency **消去率**	Connection:Fig. 2-3 TAPE: MTT-5563 1kHz B.P.F in	LINE IN: 1kHz/＋1dB	Check	65dB min.	Ratio of the 1kHz recorded portion to the erased portion. 未消去部分と消去部分の比
18. REC MUTE function REC MUTE **効果**	Connection:Fig. 2-3 TAPE: MTT-5563 1kHz B.P.F in	LINE IN: 1kHz/＋1dB	Check	55dB min.	Ratio of the 1kHz recorded portion to the "REC MUTE" portion. 録音部分と "REC MUTE" 部分の比
19. Channel separation **チャンネルセパレーション**	Connection:Fig. 2-3 TAPE: MTT-5563 1kHz B.P.F in	LINE IN: Lch 1kHz/ －9dB Rch No signal 無信号	Check	35dB min.	Ratio of Lch (1kHz) to Rch (no signal). Lch (1kHz)とRch (無信号) の比
20. Adjacent track crosstalk **トラック間クロストーク**	Connection:Fig. 2-3 TAPE: MTT-5563	LINE IN: Lch No signal 無信号 Rch 125Hz/ －9dB	Check	40dB min.	Invert tape and play Rch track. Check leakage level against the output reference of previously recorded portion. テープを反転して再生した時のRch出力レベルの比

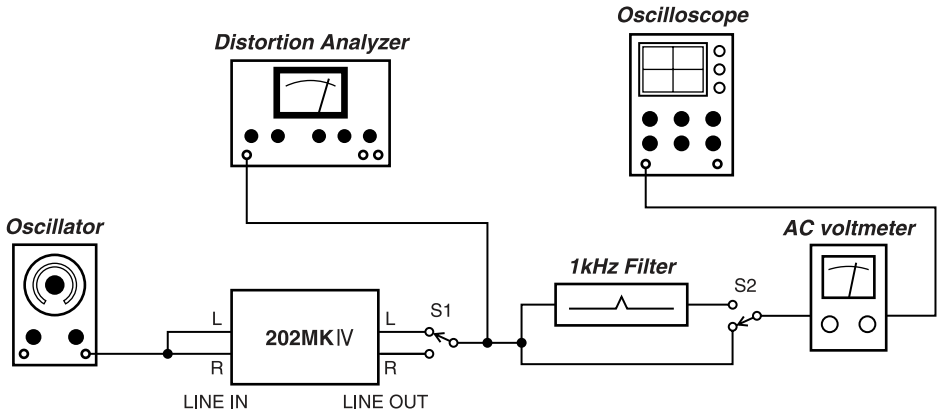


Fig. 2-3

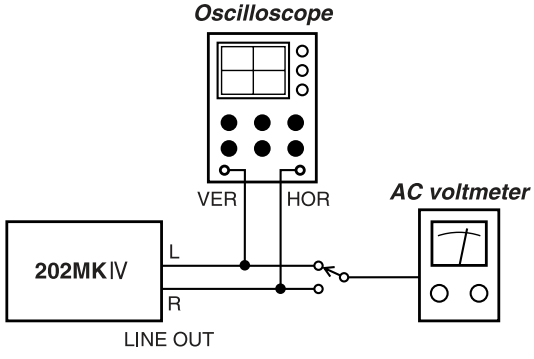


Fig. 2-4

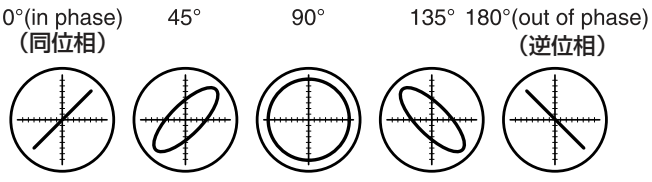
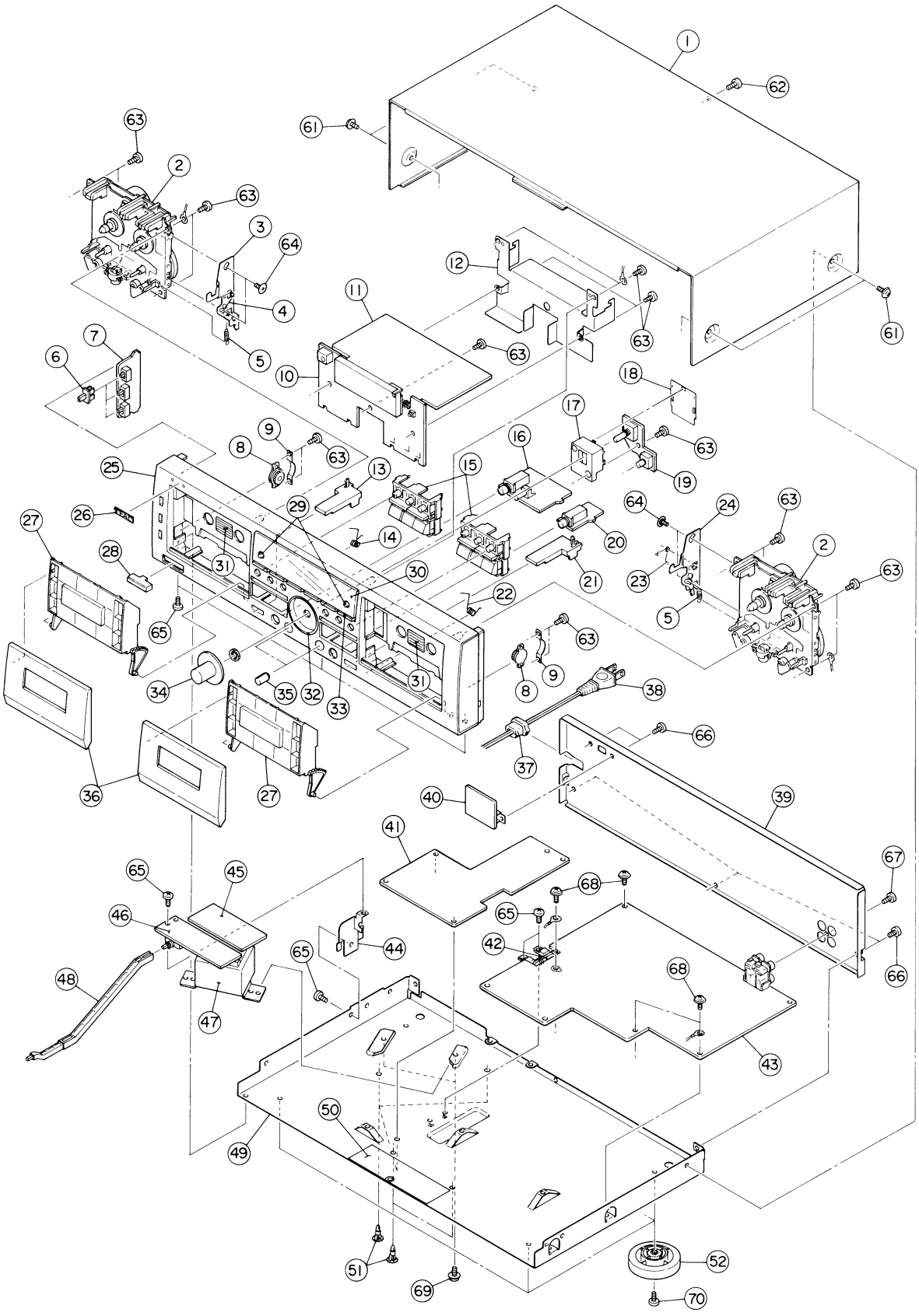


Fig. 2-5

3 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

EXPLODED VIEW-1



EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-1	3M0053900C	BONNET W790R G	W-865R(B)
	M02502200A	BONNET W-865RS G	W-865R(S)
1-2	M02286000A	MECH ASSY,RP CMAL2Z094C G	
1-3	3M0053200F	HOOK,EJECT(L) G	
1-4	3M0054300D	SPRING,HOOK L G	
1-6	3M0053700A	KNOB,SLIDE(B) G	W-865R(B)
	M02502300A	KNOB,SLIDE W-865RS G	W-865R(S)
1-7	EZ5287001A	PCBA,A-SLIDE W-865R G	
1-8	3M006100	DAMPER,GEAR 001P-O-L NF-G	
1-9	3M0060600B	DAMPER BRK W-790R G	
1-10	EZ5286601A	PCBA,A-KEY W-865R G	
1-12	3M0054000B	PLATE,SHIELD G	
1-13	3M0053000B	BUTTON,EJECT L(B) G	W-865R(B)
	M02502700A	BUTTON,EJECT L W-865RS G	W-865R(S)
1-14	3M0053300C	SPRING,L G	
1-15	M02469800A	BUTTON,PLAY W-865R G	W-865R(B)
	M02502900A	BUTTON,PLAY W-865RS G	W-865R(S)
1-16	E95290300A	PCBA,MIC W865R G	W-865R(B)
	E95299700A	PCBA,MIC W865R(S) G	W-865R(S)
1-17	3M0056100A	BRACKET,BASE G	
1-18	3M0056000A	BRACKET,TOP G	
1-19	EZ5287102A	PCBA,T-VR W-865R G	
1-20	E95287200A	PCBA,PHONE W-865R G	
1-21	3M0053100B	BUTTON,EJECT R(B) G	W-865R(B)
	M02502800A	BUTTON,EJECT R W-865RS G	W-865R(S)
1-22	3M0053400C	SPRING,R G	
1-23	3M0054400D	SPRING,HOOK R G	
1-24	3M0055300F	HOOK,EJECT(R) G	
1-25	M02464000A	PANEL,FRONT W-865R G	W-865R(B)
	M02501800A	PANEL,FRONT W-865RS G	W-865R(S)
1-26	3M0051640A	TEAC BADGE	W-865R(B)
	3M0051650A	TEAC EMBLEM S GRAY G	W-865R(S)
1-27	3M0052300C	LEAD G	
1-28	3M0054900A	BUTTON,PWR(B) G	W-865R(B)
	M02502400A	BUTTON,POWER W-865RS G	W-865R(S)
1-29	3M0052600A	BUTTON,CLEAR(B) G	
1-30	M02469900B	COVER WINDOW W-865R G	
1-31	M02551900A	PLATE,REFLECT S-LINE G	
1-32	3M0055040A	RING, MD-5S2 G	
1-33	3M0052500B	BUTTON,WINDOW(B) G	W-865R(B)
	M02502000A	BUTTON,WINDOW W-865RS G	W-865R(S)
1-34	M02470000A	KNOB,REC W-865R G	W-865R(B)
	M02501900A	KNOB,REC W-865RS G	W-865R(S)
1-35	3M0052900A	KNOB,M(B) G	W-865R(B)
	M02502600A	KNOB,M W-865RS G	W-865R(S)
1-36	M02469700A	DOOR LID W-865R G	W-865R(B)
	M02502500A	DOOR LID W-865RS G	W-865R(S)
1-37	3M000880	BUSHING, #2271(CSA)-G	
1-38	E0140770	POWER CORD,JPN PSE 7A G	
	3E009230	POWER CORD,UL/CSA SPEI-G	
	3E015210	POWER CORD,EUR-G	
	3E000350	POWER CORD,UK G	
	3E006330	POWER CORD KOREA G	
1-39	M02470200B	PANEL,REAR W-865R G	
	M02470300B	PANEL,REAR EXTC W-865R G	
1-40	E95286900A	PCBA,SELECT W-865R G	

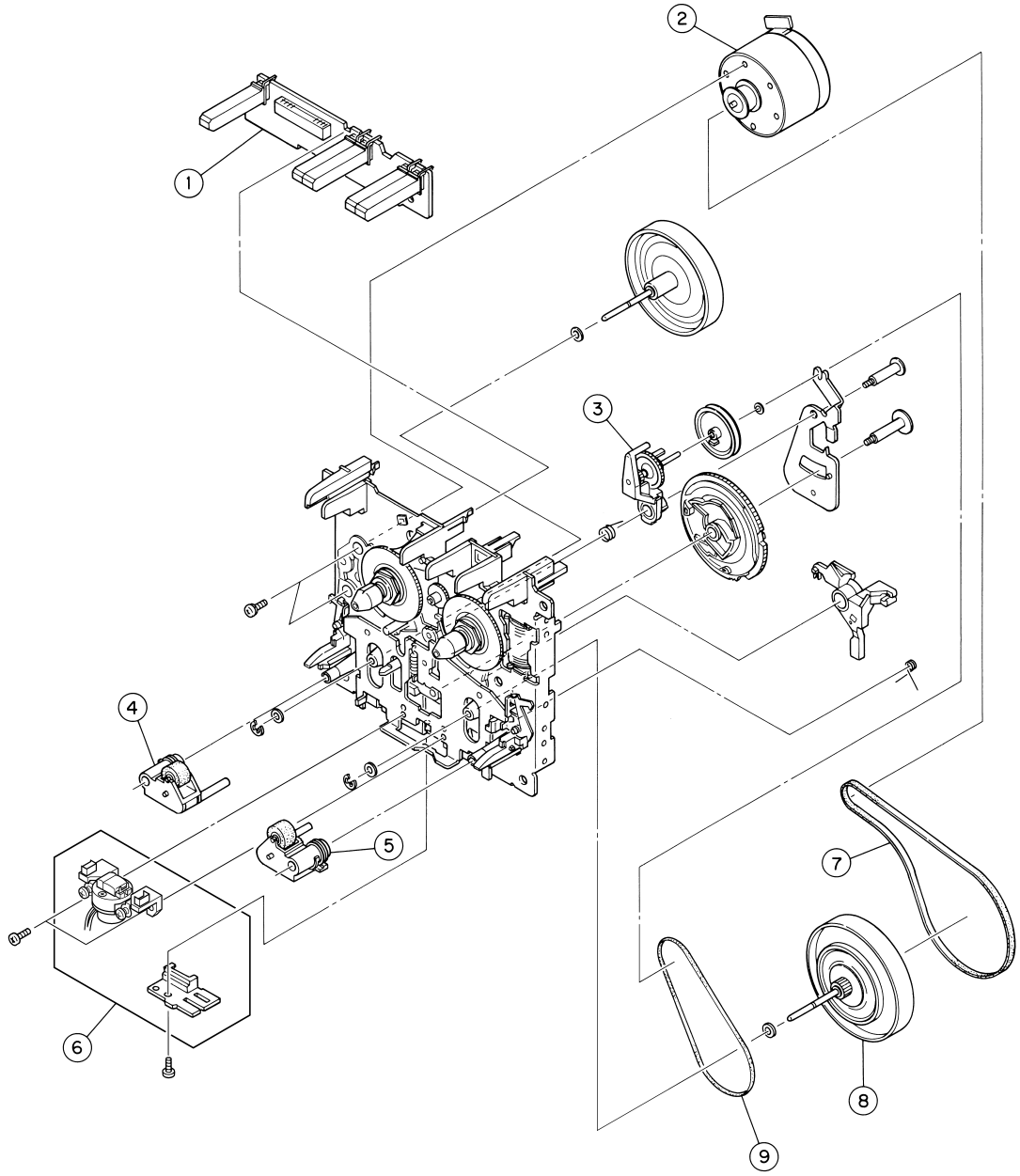
EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-41	E95290200A	PCBA,REC AMP W865R G	
1-42	E95286800A	PCBA,TR W-865R G	
1-43	E95286500A	PCBA,MAIN W-865R G	
1-44	3M0016400C	BRACKET, LINKAGE G	
1-45	E95287300A	PCBA,TRANS A JPN W-865R G	
	E95287320A	PCBA,TRANS A EXTC W865R G	
	E95287350A	PCBA,TRANS A EUR W865R G	
1-46	E95287400A	PCBA,TRANS B W-865R G	
	E95287420A	PCBA,TRANS B EXTC W865R G	
	E95287450A	PCBA,TRANS B EUR W-865R G	
1-47	3E0399900A	TRANS,POWER W-860R ALL G	
1-48	3M0053600B	LINKAGE,POWER G	
1-49	3M0010830E	MAIN CHASSIS, W-790R G	
1-50	3M0062000B	INSULATE SHEET W-790R G	
1-51	3M003070	SUPPORT,PCB SCB-8-G	
1-52	3M0047200A	FOOT ASSY, SD-455 G	
1-61	B00197606A	SCREW,PPSU 3*6 FZB G	
1-62	B00170608A	SCREW,VPCR 3*8 FZB G	
1-63	B00199008A	SCREW,BPP 3*8 FZC G	
1-64	B00245100A	SCREW,DPSU 2.6*4.5FZC G	
1-65	B00198306A	SCREW,BPS 3*6 FZC G	
1-66	B00198606A	SCREW,BPS 3*6 FZB G	
1-67	B00199708A	SCREW,BPB 3*8 FZB G	
1-68	B00197806A	SCREW,PPSU 3*6 FZC G	
1-69	B00198706A	SCREW,BPS 4*6 FZB G	
1-70	3B0000108A	SCREW,BPS M3X8 G	

INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	D00933600A	OWN MNL(JPN) W-865R G	
	D00933700A	OWN MNL(EFGISD) 865G	
	3E000380	PIN CORD, G	
	E01284400A	RMT CONT,RC-615A G	
	3E003660	BATTERY, UM-3 (2P X ED) G	

Exploded View-2



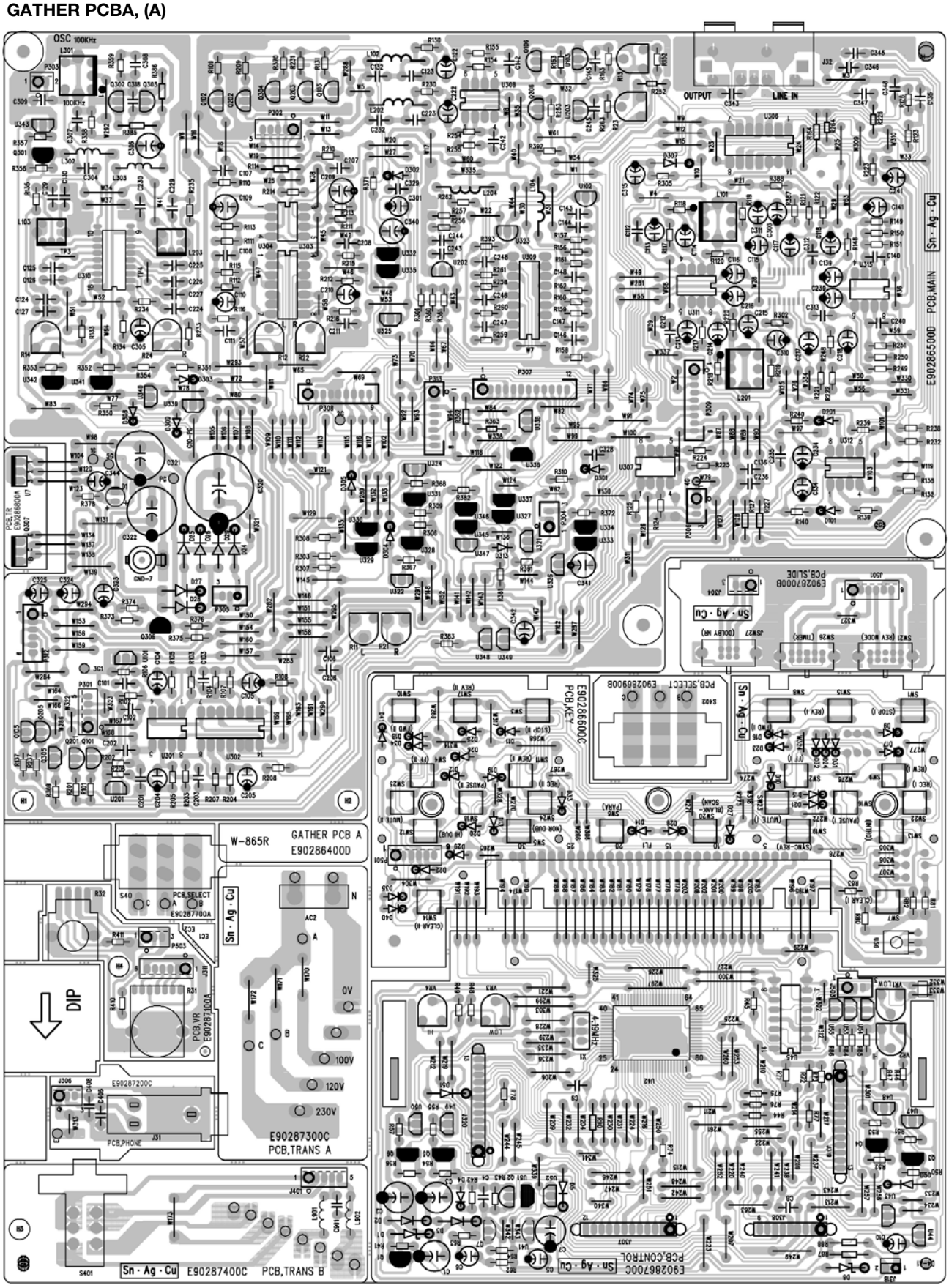
Exploded View-2 (CMAL2Z094A)

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	9A07387600	PCB CONTROL BLK	
2- 2	3M002870	MTR MAIN BLK	
2- 3	9A07387700	CLUTCH ASSY BLK	
2- 4	3M002930	ROLLER PINCH BLK L	
2- 5	3M002920	ROLLER PINCH BLK R	
2- 6	9A07387400	PLATE HD BLK	
2- 7	3M002950	BELT MAIN	
2- 8	3M002910	CLUTCH ASSY BLK(B)	
2- 9	3M002940	F/R BELT	

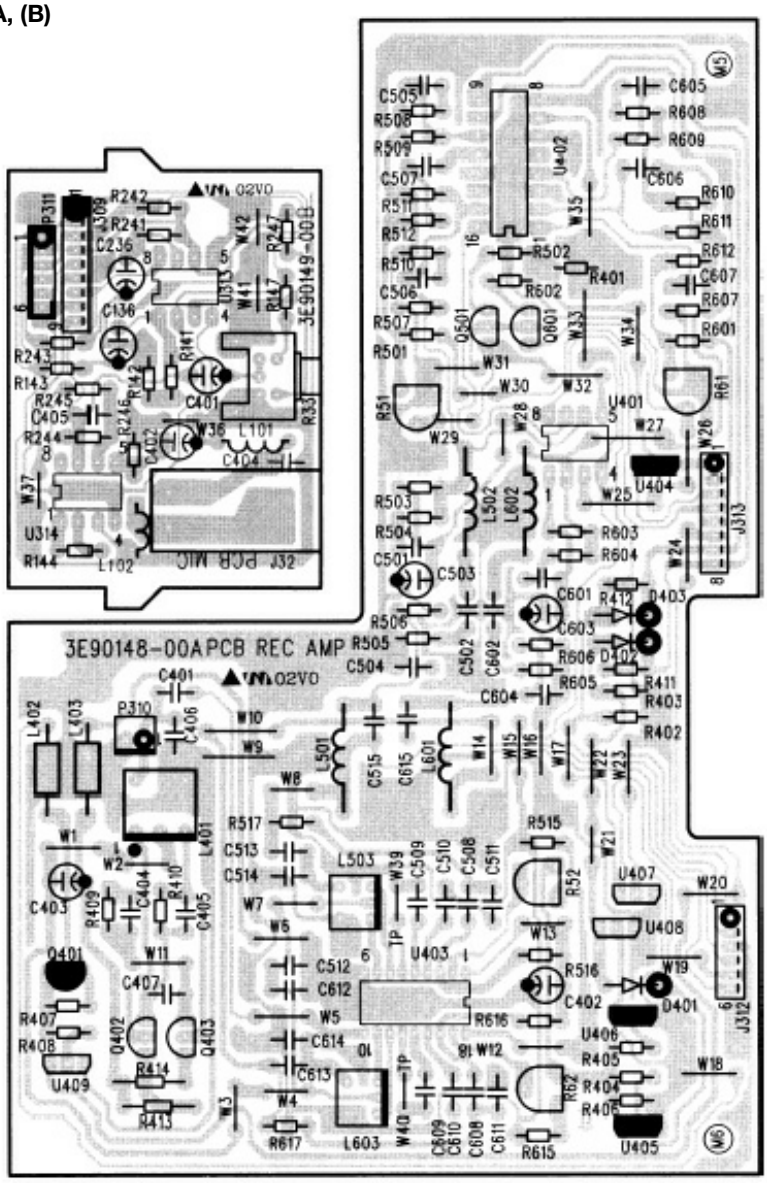
4. PC Bords and Parts List

基板図とパーツリスト

GATHER PCBA, (A)



GATHER PCBA, (B)



GATHER PCBA,(A)

REF.NO.	PARTS NO.	DESCRIPTION
	E95286400A	GATHER PCBA,A JPN W-865R G
	E95286420A	GATHER PCBA,A EXTC W-865R G
	E95286450A	GATHER PCBA,A EUR W-865R G
		PCBA,MAIN W-865R G
C320	3C001320	CE, 25V 6800UF M G
C321 C322	3C009910	CE,25V 2200 UF GS G
D1	3S000190	LED, RED(3DIA)LH2041 G
D101D201	S0067021	DIODE,1SS133 T-77 G
D24D29	3S005861	DI,SCHOTTKY,SR160 TP-G
D24D29	3E0186910A	TUBE,SU-SRT 2.0*11MM-G
D25-D28	3S000031	DI, 1N4003-F TAPINGW=52 G
D301-D305	S0067021	DIODE,1SS133 T-77 G
D307	3S000031	DI, 1N4003-F TAPINGW=52 G
D308D309	S0067021	DIODE,1SS133 T-77 G
D313	3S001811	ZDI, MTZJ4.7C TP G
J32	3E0064100B	JACK,RCA 4P RJ-1073-09-G
L101L201	3E002100G	FILTER,LOW PASS MPX G
L102L202	3E002051G	COIL,22MH EC46-223K-T2 G
L103L203	3E002180G	COIL,STEP UP G
L104L204	E004421G	COIL, 8.2MH EC46-822J-T5G
L301	3E007790G	COIL BIAS SM-10F G
L302L303	3E004411G	COIL, 220UH EC36-221K-T5G
P301	3E0076000B	5P DECK 1 HEAD WIRE-G
P302	3E0076100B	5P DECK 2 HEAD WIRE G
P304	3E038550G	CONNET B3B-PH-K BLUE G
P305	E0119740	CONNECTOR,B 3B-PH-K-S G
P306	3E019350	PLUG, B3B-PH 3P RED G
P307	E0119830	CONNECTOR,B12B-PH-K-S G
P308	E0119800	CONNECTOR,B 9B-PH-K-S G
P309	E0119800	CONNECTOR,B 9B-PH-K-S G
P312	E0119770	CONNECTOR,B 6B-PH-K-S G
P313	E0119790	CONNECTOR,B 8B-PH-K-S G
Q101Q201	S0065482	TR,2SC1815-GR(TPE2.F) GZO
Q102Q202	S0065482	TR,2SC1815-GR(TPE2.F) GZO
Q103Q203	3S000412G	2SC2240GR(F) G
Q105Q205	3S000412G	2SC2240GR(F) G
Q106Q206	3S000731 T	R, 2SD2144S TP G
Q301	S0066842	TRANSISTOR,2SA1015GR-T G
Q302Q303	S0065482	TR,2SC1815-GR(TPE2.F) GZO
Q304Q305	3S000412G	2SC2240GR(F) G
Q306	S0066842	TRANSISTOR,2SA1015GR-T G
R11R21	3R004590	VR SEMI-FIXEDRH0615-10KBG
R12R22	3R004590	VR SEMI-FIXEDRH0615-10KBG
R13R23	3R004600	VR SEMI-FIXED RH0615-22KG
R14R24	3R004590	VR SEMI-FIXEDRH0615-10KBG
U101U201	S0069222	TRANSISTOR,DTC124ESATP G
U102U202	S0069222	TRANSISTOR,DTC124ESATP G
U103U203	S0069222	TRANSISTOR,DTC124ESATP G
U301	3S000280G	IC, UPC4570C-A G
U302	3S000430	IC, BU4066BC G
U303	3S000280G	IC, UPC4570C-A G
U304	3S000430	IC, BU4066BC G
U305	S0061754	IC,HA12134AFEL-E G

GATHER PCBA,(A)

REF.NO.	PARTS NO.	DESCRIPTION
U306	3S000430	IC, BU4066BC G
U307U312	3S000260G	IC, NJM4558D-#ZZZB G
U308	3S000260G	IC, NJM4558D-#ZZZB G
U309	3S000470G	IC, TC4052BP G
U310	3S000270G	IC, UPC1297CA-A G
U311	3S000260G	IC, NJM4558D-#ZZZB G
U315	3S000260G	IC, NJM4558D-#ZZZB G
U321-U326	S0069222	TRANSISTOR,DTC124ESATP G
U327-U337	S0069232	TRANSISTOR,DTA124ESATP G
U338-U340	S0069222	TRANSISTOR,DTC124ESATP G
U342	S0069232	TRANSISTOR,DTA124ESATP G
U343	S0069222	TRANSISTOR,DTC124ESATP G
U345U346	S0069232	TRANSISTOR,DTA124ESATP G
U347-U349	S0069222	TRANSISTOR,DTC124ESATP G
1G-2G	3E0044500A	WIRE,#24UL1007 BLK 80MM G
		PCBA,TR W-865R G
Q307	3S004920G	2SB1375(F,M)
Q307	3E0186920A	TUBE,SU-SRT 2.0*6.3MM-G
U7	S0066600	IC,NJM7805FA G
		PCBA,SLIDE SW W-865R G
J304	E01282200B	HARNESS ASSY,3P DBY 865 G
SW21	3E006380	SW,SLIDE AXA 2-3-G
SW26	3E006380	SW,SLIDE AXA 2-3-G
SW27	E0128230	SW,SLIDE AXA 2-2-G
		PCBA,KEY W-865R G
D9-D29	S0067021	DIODE,1SS133 T-77 G
D31-D35	S0067021	DIODE,1SS133 T-77 G
D40 D41	S0067021	DIODE,1SS133 T-77 G
FL	3E0106310B	DISPLAY,FL SVAC065M14 G
P501-J501	3E0077001A	6P SLIDE WIRE G
SW1	E0127100	SW,TACT SKHHAM2520 G
SW2	E0127100	SW,TACT SKHHAM2520 G
SW3	E0127100	SW,TACT SKHHAM2520 G
SW4	E0127100	SW,TACT SKHHAM2520 G
SW5	E0127100	SW,TACT SKHHAM2520 G
SW6	E0127100	SW,TACT SKHHAM2520 G
SW7	E0127100	SW,TACT SKHHAM2520 G
SW8	E0127100	SW,TACT SKHHAM2520 G
SW9	E0127100	SW,TACT SKHHAM2520 G
SW10	E0127100	SW,TACT SKHHAM2520 G
SW11	E0127100	SW,TACT SKHHAM2520 G
SW12	E0127100	SW,TACT SKHHAM2520 G
SW13	E0127100	SW,TACT SKHHAM2520 G
SW14	E0127100	SW,TACT SKHHAM2520 G
SW15	E0127100	SW,TACT SKHHAM2520 G
SW16	E0127100	SW,TACT SKHHAM2520 G
SW17	E0127100	SW,TACT SKHHAM2520 G
SW18	E0127100	SW,TACT SKHHAM2520 G
SW19	E0127100	SW,TACT SKHHAM2520 G
SW20	E0127100	SW,TACT SKHHAM2520 G

GATHER PCBA,(A)

REF.NO.	PARTS NO.	DESCRIPTION
SW22	E0127100	SW,TACT SKHHAM2520 G
SW23	E0127100	SW,TACT SKHHAM2520 G
SW24	E0127100	SW,TACT SKHHAM2520 G
SW25	E0127100	SW,TACT SKHHAM2520 G
	3M0060400A	HOLDER FL(L) W-790R G
	3M0060500A	HOLDER FL(R) W-790R G
		PCBA,CONTROL W-865R G
D1	3S001801	ZDI, MTZJ22C T-77 G
D2	3S000031	DI, 1N4003-F TAPINGW=52 G
D3	3S000031	DI, 1N4003-F TAPINGW=52 G
D4	S0067021	DIODE,1SS133 T-77 G
D5	3S000031	DI, 1N4003-F TAPINGW=52 G
D8	3S001521	ZDI.MTZJ3.9B TP G
D50	3S000031	DI, 1N4003-F TAPINGW=52 G
D51	3S000031	DI, 1N4003-F TAPINGW=52 G
J307	3E0076501A	12P CONTROL WIRE G
J308	3E0076600A	9P CONTROL WIRE G
J318	E0119730	CONNECTOR,B 2B-PH-K-S G
J319 J320	3E0030100A	13P CTL WIRE ASSY G
J503	E0119740	CONNECTOR,B 3B-PH-K-S G
Q1	S0066842	TRANSISTOR,2SA1015GR-T G
Q2 Q7	S0065482	TR,2SC1815-GR(TPE2.F) GZO
Q3-Q6	S000320	TR, 2SB1237TV2Q G
U41	3S000380G	IC, TA78L005AP (F) G
U42	3S0017600D	IC,CXP82616-164Q W-790RG
U43 U44	S0069222	TRANSISTOR,DTC124ESATP G
U45	3S000430	IC, BU4066BC G
U47-U50	S0069222	TRANSISTOR,DTC124ESATP G
U51	S0069232	TRANSISTOR,DTA124ESATP G
U52-U55	S0069222 T	RANSISTOR,DTC124ESATP G
VR1-VR4	3R004570	VR SEMI-FIXERH0615-2.2KBG
X1	3E005480	RESONATO,CERAMIC4.19HZ G
		PCBA,VR W-865R G
J311	3E0077301A	6P MIC-B WIRE G
P503	3E0076901B	3P PITH CON WIRE G
R31	3R004510	VAR RES,RK14K12D 50KA*2 G
R32	3R004880	VAR REG,10KB RK11K1130G
		PCBA,PHONE W-865R G
J31	E0128310	JACK,PHONE JY6317-01-030G
J306	3E0076401C	3P PHONE WIRE G
E 3	E0082600B	PHONE JACK GND WIRE G
		PCBA,TRANS A JPN W-865R G
		PCBA,TRANS A EUR W-865R G
		PCBA,TRANS A EXTC W-865R G
AC2	3E002170	PIN,TERMINAL LAPPING 2P G
A	3E0077600B	WHT WIRE (0V) G
B	3E0077700B	BRW WIRE (120V)
C	3E0077800B	ORG WIRE (230V)

GATHER PCBA,(A)

REF.NO.	PARTS NO.	DESCRIPTION
		PCBA,TRANS B W-865R G
		PCBA,TRANS B EXTC W-865R G
		PCBA,TRANS B EUR W-865R G
J401	3E0076201A	5P POWER WIRE G
S401	3E002060	SW,PUSH SPUN 12 G
		PCBA,SELECT W-865R G
S40	3E039950	SW CSL14-22AH-0AN G

GATHER PCBA,(B)

REF.NO.	PARTS NO.	DESCRIPTION
	E95290100A	GATHER PCBA,(B) W-865R G
	E95290150A	GA PCBA,(B) EUR W-865R G
		PCBA,REC AMP W-865R G
D401	S0067021	DIODE,1SS133 T-77 G
D402	S0067021	DIODE,1SS133 T-77 G
D403	S0067021	DIODE,1SS133 T-77 G
J312	3E0076700A	6P R/P WIRE G
J313	3E0076801A	8P R/P WIRE G
L401	3E007790G	COIL BIAS SM-10F G
L402 L403	3E004411G	COIL, 220UH EC36-221K-T5G
L501 L601	3E002051G	COIL,22MH EC46-223K-T2 G
L502 L602	3E004421G	COIL, 8.2MH EC46-822J-T5G
L503 L603	3E002180G	COIL,STEP UP G
P310	E0119730	CONNECTOR,B 2B-PH-K-S G
Q401	S0066842	TRANSISTOR,2SA1015GR-T G
Q402	S0065482	TR,2SC1815-GR(TPE2.F) GZO
Q403	S0065482	TR,2SC1815-GR(TPE2.F) GZO
Q501 Q601	3S000731	TR, 2SD2144S TP G
R51 R61	3R004600	VR SEMI-FIXED RH0615-22KG
R52 R62	3R004590	VR SEMI-FIXEDRH0615-10KBG
U401	3S000260G	IC, NJM4558D-#ZZZB G
U402	3S000470G	IC, TC4052BP G
U403	3S000270G	IC, UPC1297CA-A G
U404	S0069232	TRANSISTOR,DTA124ESATP G
U405	S0069232	TRANSISTOR,DTA124ESATP G
U406	S0069232	TRANSISTOR,DTA124ESATP G
U407	S0069222	TRANSISTOR,DTC124ESATP G
U408	S0069222	TRANSISTOR,DTC124ESATP G
U409	S0069222	TRANSISTOR,DTC124ESATP G
		PCBA,MIC W-865R G
		PCBA,MIC EUR W-865R G
J33	E0133770	JACK,JY-6317*01-130 G
J309	3E0077101A	9P MIC WIRE G
L101	3E009040G	COIL,8.2UH EC24-8R2K G
L101	E0123301	JUMPER WIRE,10MM G
L102	E0123271	JUMPER WIRE,7.5MM G
L102	E0123271	JUMPER WIRE,7.5MM G
R33	3R004360	VAR RES,RK09K12A0001-TK G
P311	E0119770	CONNECTOR,B 6B-PH-K-S G
U313	3S000260G	IC, NJM4558D-#ZZZB G
U314	3S000260G	IC, NJM4558D-#ZZZB G
	E01325700A	HARNESS ASSY,MIC GND G

REF.NO.	PARTS NO.	DESCRIPTION

W-865R

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TEAC

SCHEMATIC DIAGRAM
回路図

W-865R

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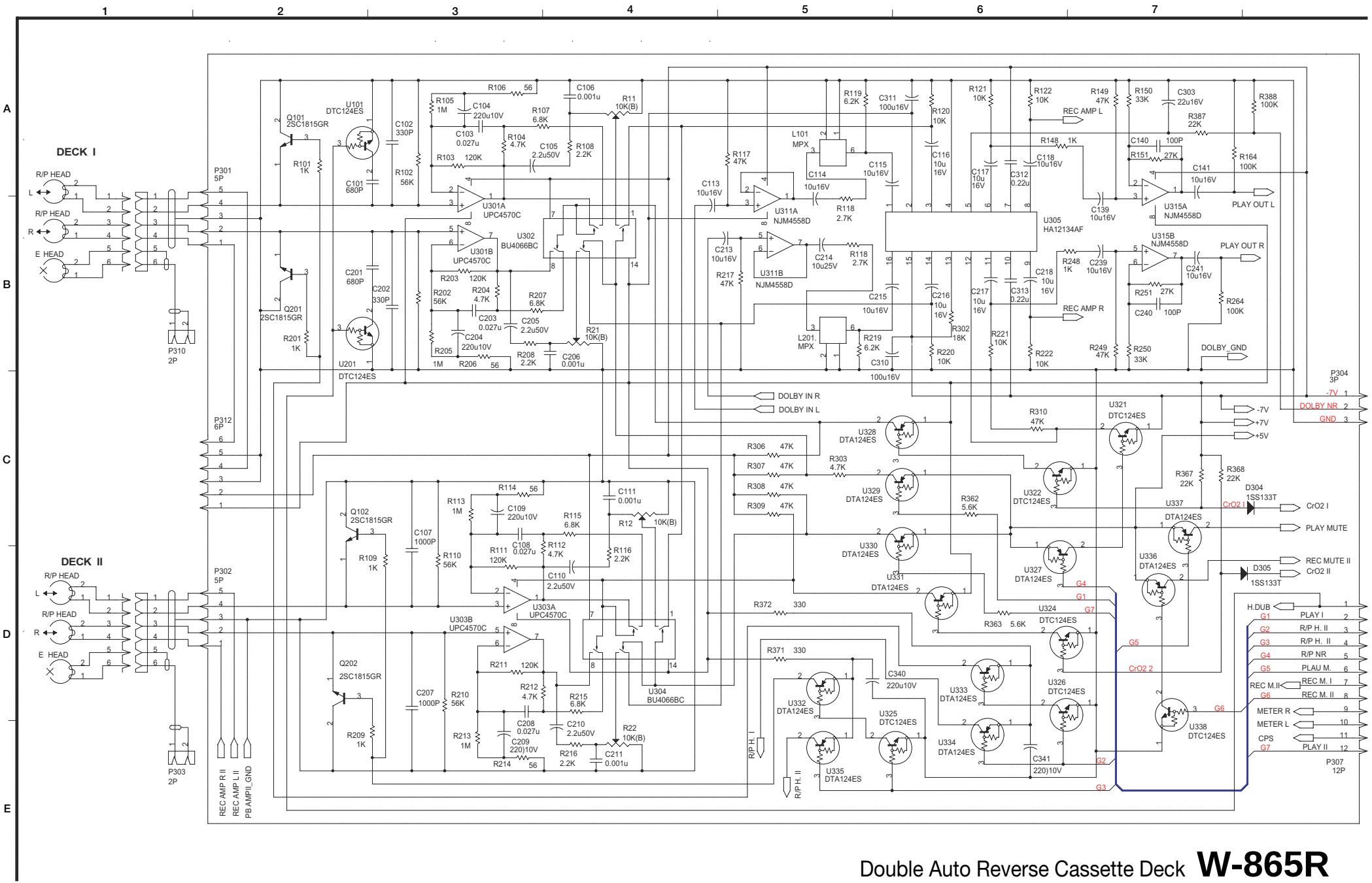

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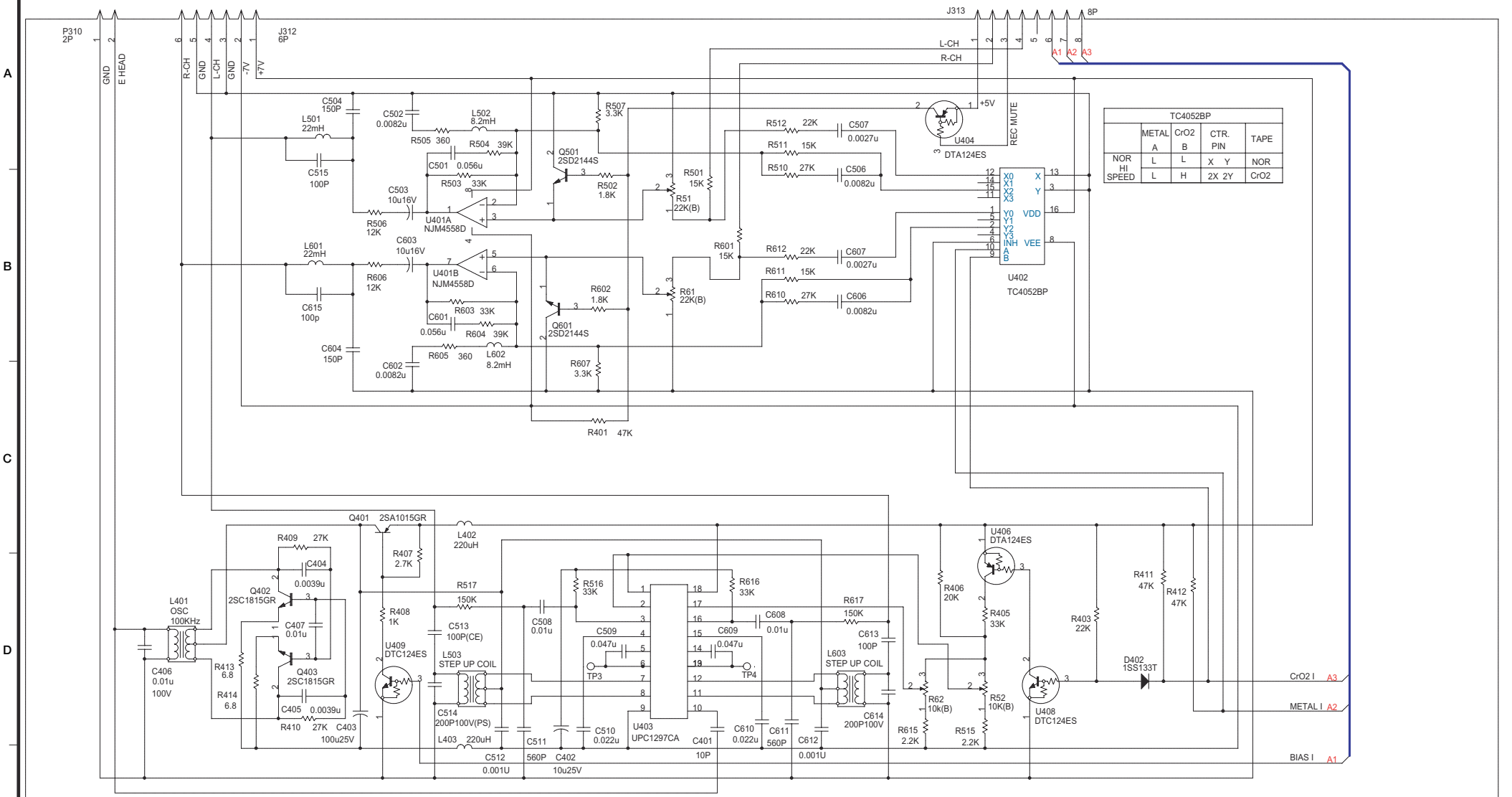

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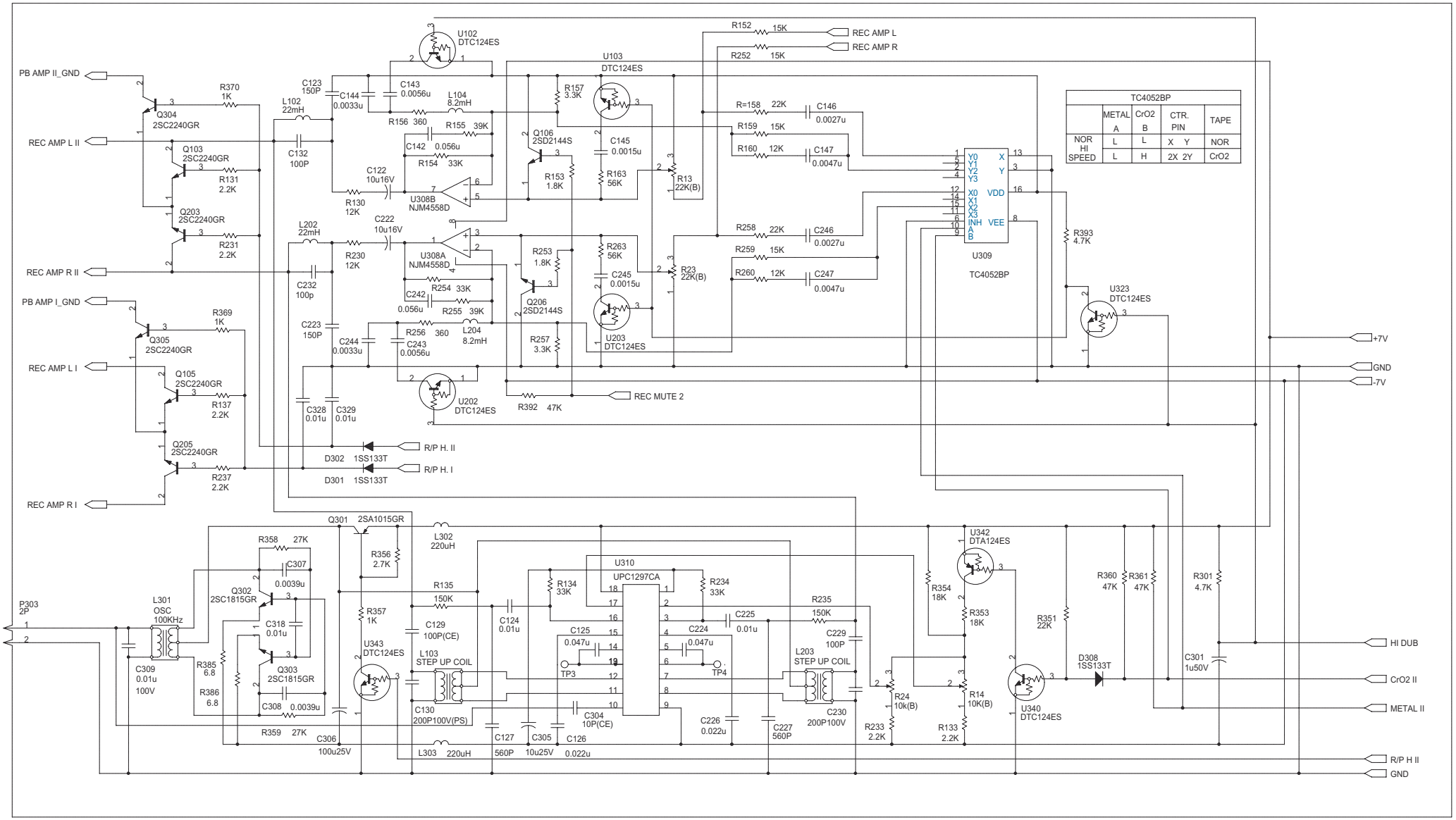

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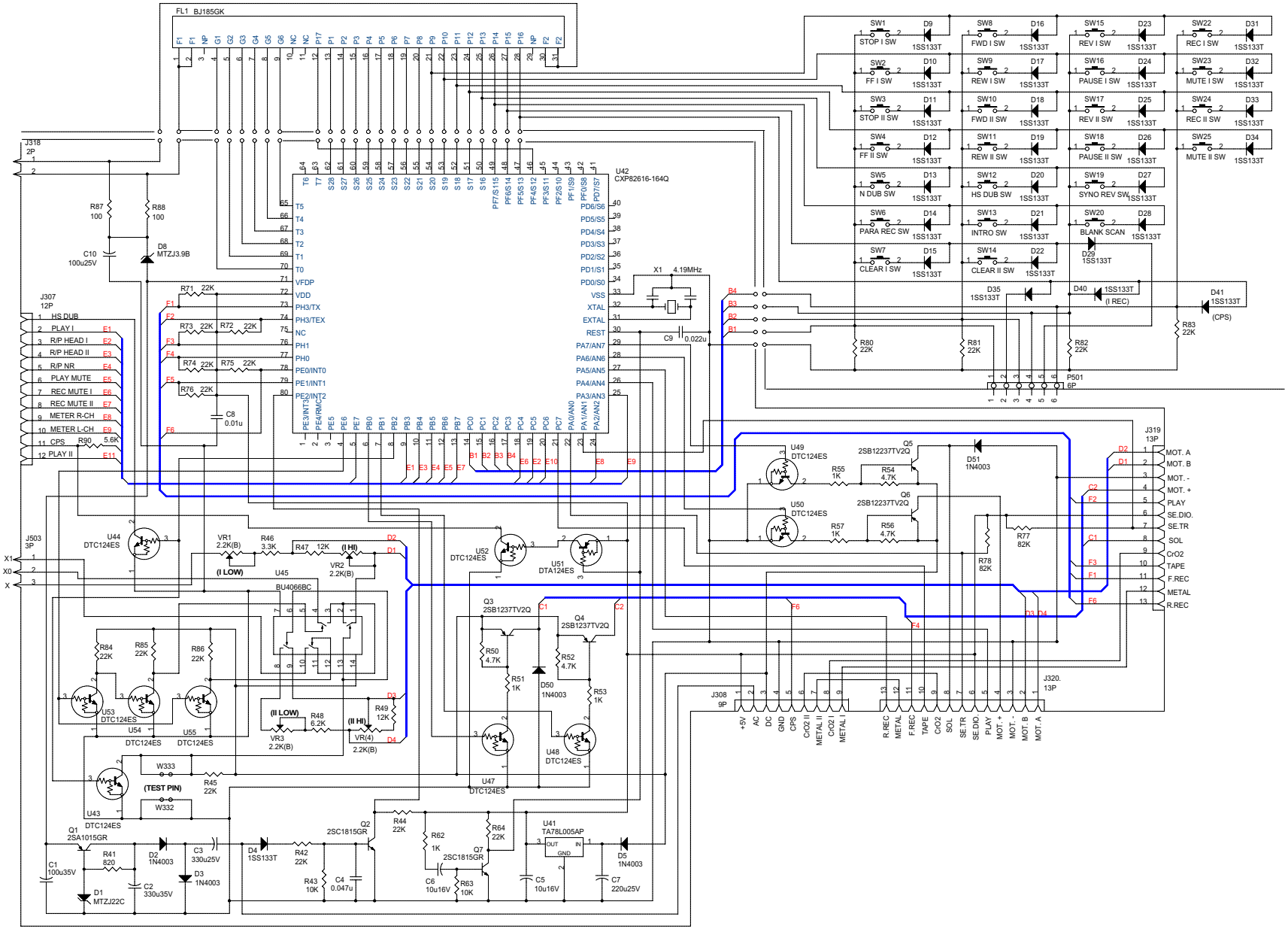

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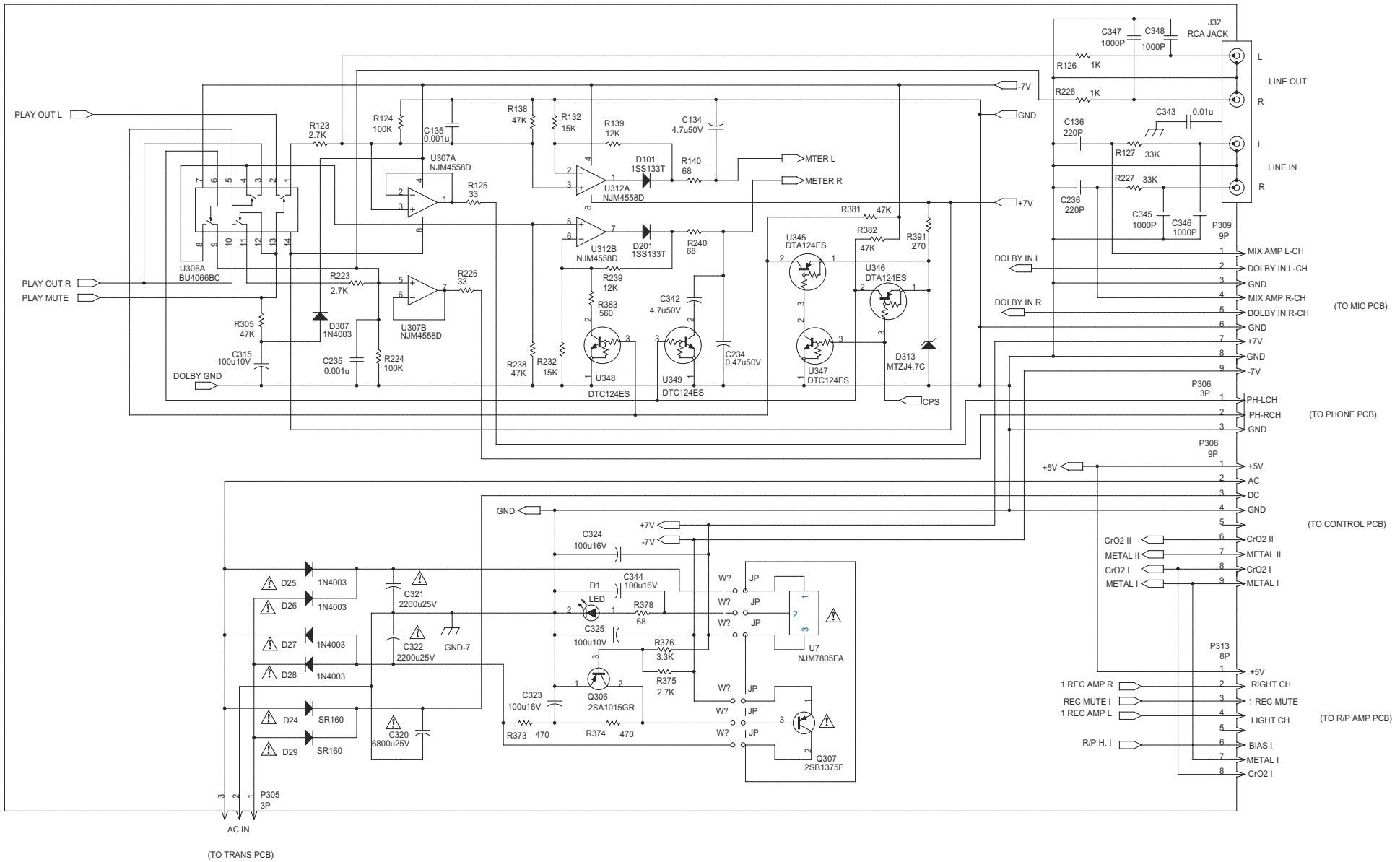

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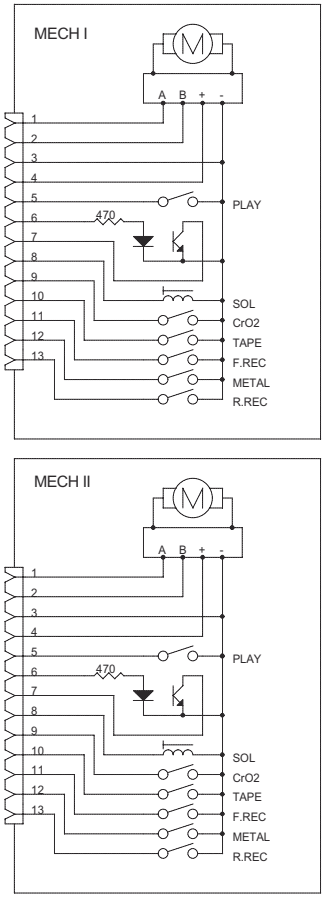

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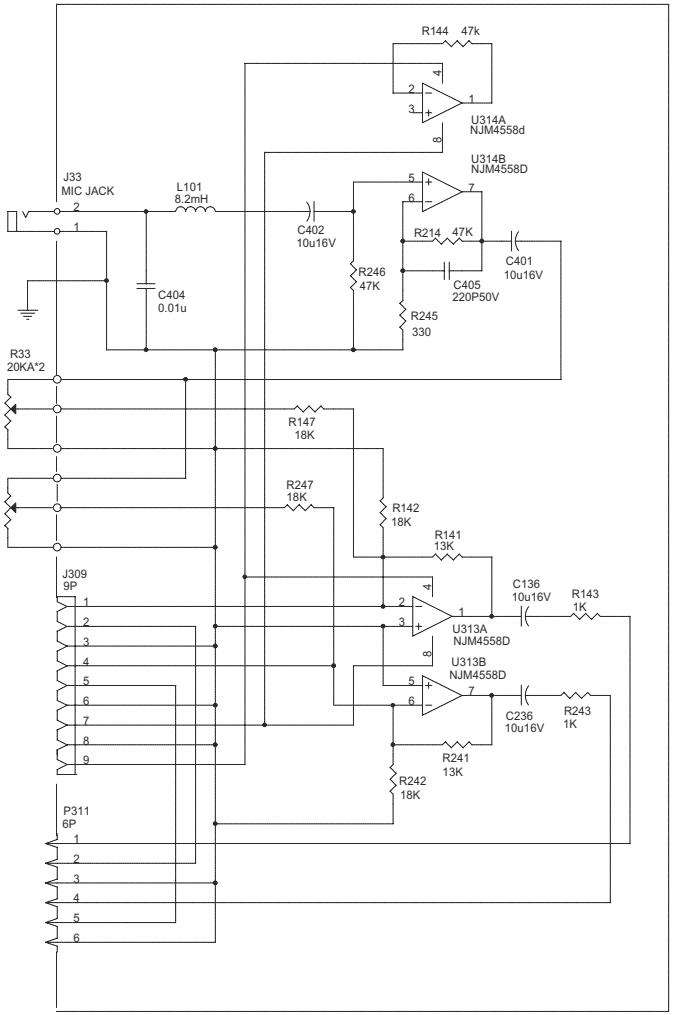

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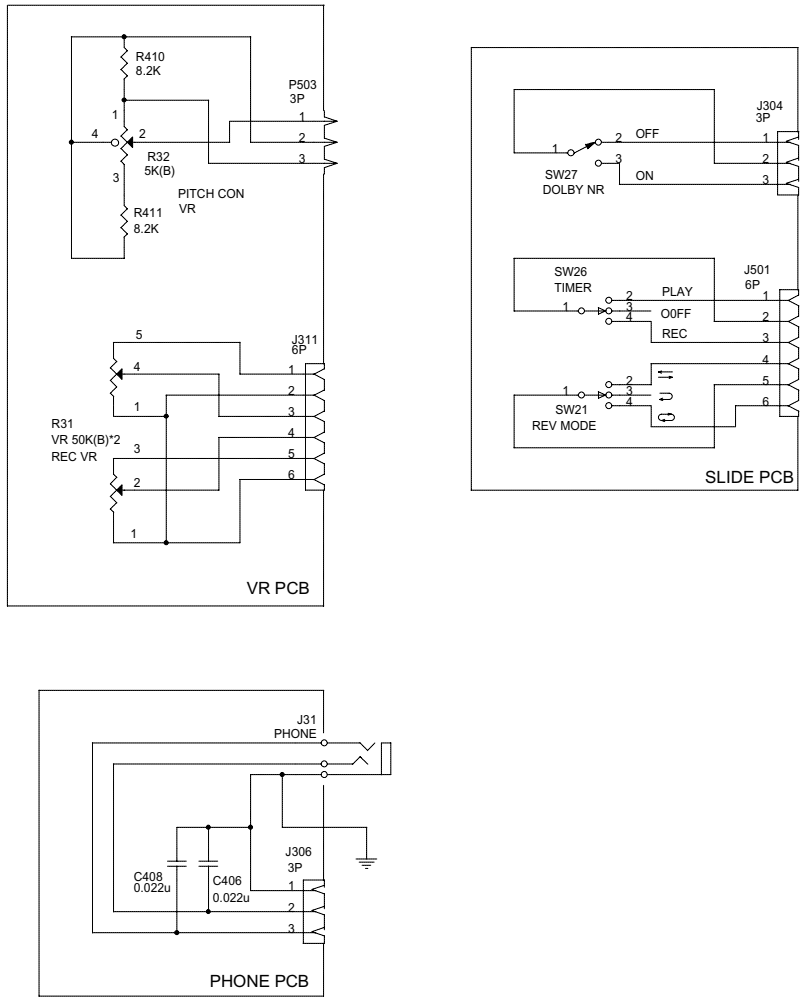

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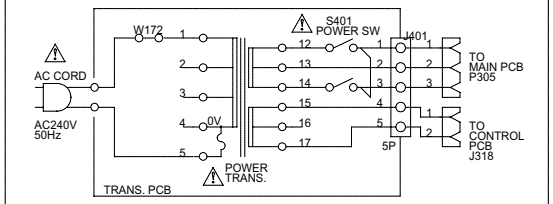

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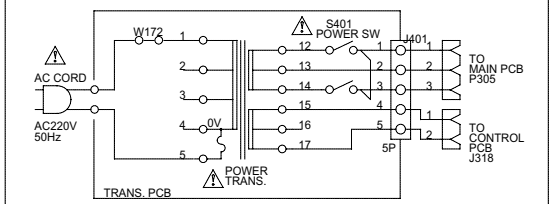

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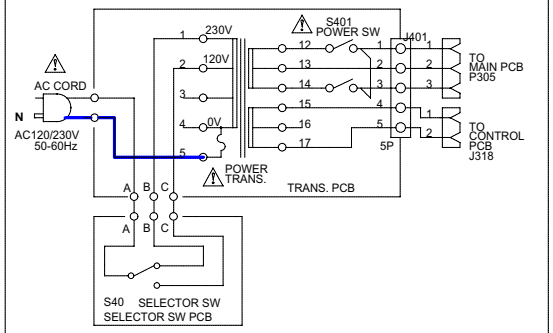

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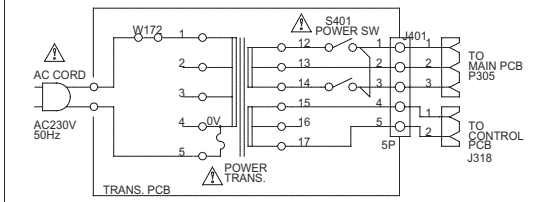

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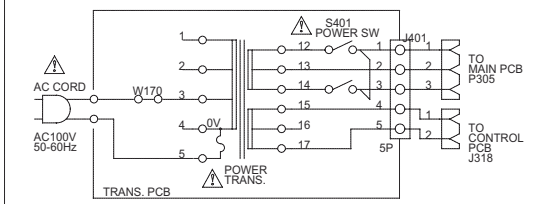

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